



IFWO

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/721,579

DATE: 09/16/2004
TIME: 16:08:07

Input Set : A:\-17-1.app
Output Set: N:\CRF4\09162004\J721579.raw

3 <110> APPLICANT: Swenson, David
4 Cepheid
6 <120> TITLE OF INVENTION: Controls for Primers in Multiplex Amplification
7 Reactions
9 <130> FILE REFERENCE: 020048-001710US
11 <140> CURRENT APPLICATION NUMBER: US 10/721,579
12 <141> CURRENT FILING DATE: 2003-11-24
14 <150> PRIOR APPLICATION NUMBER: US 60/429,834
15 <151> PRIOR FILING DATE: 2002-11-27
17 <160> NUMBER OF SEQ ID NOS: 15
19 <170> SOFTWARE: PatentIn Ver. 2.1
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 81
23 <212> TYPE: DNA
24 <213> ORGANISM: Artificial Sequence
26 <220> FEATURE:
27 <223> OTHER INFORMATION: Description of Artificial Sequence:Bacteria A
28 specific PCR target sequence
30 <400> SEQUENCE: 1
31 gggtgcggaaag tgtaacgagg tggaaagcgc accatcgaaa ctattacaag tcccttgatg 60
32 gaagattatgt tcgaccactt t 81
35 <210> SEQ ID NO: 2
36 <211> LENGTH: 81
37 <212> TYPE: DNA
38 <213> ORGANISM: Artificial Sequence
40 <220> FEATURE:
41 <223> OTHER INFORMATION: Description of Artificial Sequence:complementary
42 sequence to the target sequence for Bacteria A
44 <400> SEQUENCE: 2
45 aaagtggatcg acataatctt ccatcaaggg actagtaata gaaacgtatgg tgcgctttcc 60
46 acctcgatcc acattccgcac c 81
49 <210> SEQ ID NO: 3
50 <211> LENGTH: 15
51 <212> TYPE: DNA
52 <213> ORGANISM: Artificial Sequence
54 <220> FEATURE:
55 <223> OTHER INFORMATION: Description of Artificial Sequence:Bacteria A
56 forward primer
58 <400> SEQUENCE: 3
59 ttacacttcc gcacc 15
62 <210> SEQ ID NO: 4
63 <211> LENGTH: 15
64 <212> TYPE: DNA

ENTERED

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SM: Artificial Sequence
E:
INFORMATION: Description of Artificial Sequence:Bacteria A
e primer
CE: 4
cttt 15
NO: 5
27
DNA
SM: Artificial Sequence
E:
INFORMATION: Description of Artificial Sequence:Beacons probe
teria A
E:
CY: modified_base
ON: (1)
INFORMATION: n = c modified by FAM
E:
CY: modified_base
ON: (27)
INFORMATION: n = g modified by Dabcyl
E: 5
aatagaaa cgcgtgn 27
NO: 6
90
DNA
SM: Artificial Sequence
E:
INFORMATION: Description of Artificial Sequence:Bacteria B
ic PCR target sequence
CE: 6
cagcgacga tgcagcgacg agtcgaggct aggcgagcag ctttatctat 60
tgtacgtag cttagcatctg 90
NO: 7
: 90
DNA
SM: Artificial Sequence
E:
INFORMATION: Description of Artificial Sequence:complementary
ce to the target sequence for Bacteria B
CE: 7
tacgtacac gatcacgatg atagataaag ctgctcgctt agcctcgact 60
cgtcgtgc atacgcgtgc 90
NO: 8
: 15
DNA
SM: Artificial Sequence
E:
INFORMATION: Description of Artificial Sequence:Bacteria B

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133 forward primer
 135 <400> SEQUENCE: 8
 136 gctgcatacg cgtgc 15
 139 <210> SEQ ID NO: 9
 140 <211> LENGTH: 15
 141 <212> TYPE: DNA
 142 <213> ORGANISM: Artificial Sequence
 144 <220> FEATURE:
 145 <223> OTHER INFORMATION: Description of Artificial Sequence:Bacteria B
 146 reverse primer, Target 2 reverse primer sequence
 148 <400> SEQUENCE: 9
 149 cgttagctagc atctcg 15
 152 <210> SEQ ID NO: 10
 153 <211> LENGTH: 30
 154 <212> TYPE: DNA
 155 <213> ORGANISM: Artificial Sequence
 157 <220> FEATURE:
 158 <223> OTHER INFORMATION: Description of Artificial Sequence:Beacons probe
 159 for Bacteria B
 161 <220> FEATURE:
 162 <221> NAME/KEY: modified_base
 163 <222> LOCATION: (1)
 164 <223> OTHER INFORMATION: n = c modified by Texas Red
 166 <220> FEATURE:
 167 <221> NAME/KEY: modified_base
 168 <222> LOCATION: (30)
 169 <223> OTHER INFORMATION: n = g modified by Dabcyl
 171 <400> SEQUENCE: 10
 W--> 172 ncacgcgcgtg ctcgcctagc ctggcgctgn 30
 175 <210> SEQ ID NO: 11
 176 <211> LENGTH: 111
 177 <212> TYPE: DNA
 178 <213> ORGANISM: Artificial Sequence
 180 <220> FEATURE:
 181 <223> OTHER INFORMATION: Description of Artificial Sequence:Internal
 182 Control Oligo
 184 <400> SEQUENCE: 11
 185 ggtgcggaaag tgtaaaaaacg tagcttagcat aaaagctagc atctgaaatc gagctgatgc 60
 186 tgcaaagctg catacgcgaa agcatacgcg tgcaaatacg tcgaccactt t 111
 189 <210> SEQ ID NO: 12
 190 <211> LENGTH: 111
 191 <212> TYPE: DNA
 192 <213> ORGANISM: Artificial Sequence
 194 <220> FEATURE:
 195 <223> OTHER INFORMATION: Description of Artificial Sequence:complementary
 196 sequence to the target sequence for Internal
 197 Control Oligo
 199 <400> SEQUENCE: 12
 200 aaagtggctcg acatatttgc acgcgtatgc tttcgctaa gcagcttgc agcatcagct 60

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201 cgatttcaga tgctagctt tatgctagct acgttttac acttccgcac c 111
 204 <210> SEQ ID NO: 13
 205 <211> LENGTH: 27
 206 <212> TYPE: DNA
 207 <213> ORGANISM: Artificial Sequence
 209 <220> FEATURE:
 210 <223> OTHER INFORMATION: Description of Artificial Sequence: Beacons probe
 211 for the Internal Control
 213 <220> FEATURE:
 214 <221> NAME/KEY: modified_base
 215 <222> LOCATION: (1)
 216 <223> OTHER INFORMATION: n = c modified by TET
 218 <220> FEATURE:
 219 <221> NAME/KEY: modified_base
 220 <222> LOCATION: (27)
 221 <223> OTHER INFORMATION: n = g modified by Dabcyl
 223 <400> SEQUENCE: 13
 W--> 224 ncacgcgcag catcagctcg agcgtgn 27
 227 <210> SEQ ID NO: 14
 228 <211> LENGTH: 30
 229 <212> TYPE: DNA
 230 <213> ORGANISM: Artificial Sequence
 232 <220> FEATURE:
 233 <223> OTHER INFORMATION: Description of Artificial Sequence: Target 2
 234 reverse primer subsequences
 236 <400> SEQUENCE: 14
 237 cgtagctagc atctgaaaag ctagcatctg 30
 240 <210> SEQ ID NO: 15
 241 <211> LENGTH: 27
 242 <212> TYPE: DNA
 243 <213> ORGANISM: Artificial Sequence
 245 <220> FEATURE:
 246 <223> OTHER INFORMATION: Description of Artificial Sequence: Target 2
 247 reverse primer subsequences
 249 <220> FEATURE:
 250 <221> NAME/KEY: modified_base
 251 <222> LOCATION: (10)..(21)
 252 <223> OTHER INFORMATION: n = g, a, c or t; unrelated nucleotides separating
 253 Target 2 reverse primer subsequences
 255 <400> SEQUENCE: 15
 W--> 256 cgtagctagn nnnnnnnnnn ncatctg 27

RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 1,27 ✓
Seq#:10; N Pos. 1,30 ✓
Seq#:13; N Pos. 1,27 ✓
Seq#:15; N Pos. 10,11,12,13,14,15,16,17,18,19,20,21 ✓

VERIFICATION SUMMARY

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L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:224 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0